

Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

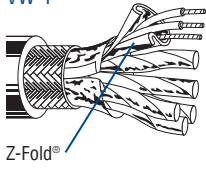
Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the paired cable products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

Individually Shielded Pairs with Overall Foil/Braid Shield

Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs Individually Beldfoil® Shielded + Overall Beldfoil (100% Coverage) + TC Braid Shield (65%) • Drain Wire [▲]																		
Datalene® Insulation • Chrome PVC Jacket																		
UL AWM Style 2493 (60°C) VW-1 	8168	NEC:	8	See Chart 3 (Tech Info Section)	100	30.5	10.8	4.9	24.0Ω/M'	Individual:	.479 12.17	100	78%	12.5	41	22	72.2	
		CM			500	152.4	61.5	28.0	78.7Ω/km	18.0Ω/M'								
		CEC:			1000	304.8	115.0	52.3	59.1Ω/km	Overall:								
		CM							3.0Ω/M'	9.8Ω/km								
	8170	NEC:	10	See Chart 3 (Tech Info Section)	100	30.5	18.0	8.2	24.0Ω/M'	Individual:	.584 14.83	100	78%	12.5	41	22	72.2	
CM		500			152.4	83.0	37.7	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	164.0	74.5	59.1Ω/km	Overall:									
CM								2.7Ω/M'	8.9Ω/km									
	8175	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	22.6	10.3	24.0Ω/M'	Individual:	.665 16.89	100	78%	12.5	41	22	72.2	
CM		500			152.4	107.5	48.9	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	210.0	95.5	59.1Ω/km	Overall:									
CM								2.5Ω/M'	8.2Ω/km									
	8178	NEC:	18	See Chart 3 (Tech Info Section)	100	30.5	24.6	11.2	24.0Ω/M'	Individual:	.686 17.42	100	78%	12.5	41	22	72.2	
CM		500			152.4	117.0	53.2	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	238.0	108.2	59.1Ω/km	Overall:									
CM								2.6Ω/M'	8.5Ω/km									
	8185	NEC:	25	See Chart 3 (Tech Info Section)	100	30.5	32.3	14.7	24.0Ω/M'	Individual:	.822 20.88	100	78%	12.5	41	22	72.2	
CM		500			152.4	160.5	73.0	78.7Ω/km	18.0Ω/M'									
CEC:		1000			304.8	356.0	161.8	59.1Ω/km	Overall:									
CM								2.4Ω/M'	7.9Ω/km									

[▲]24 AWG stranded TC drain wire

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.